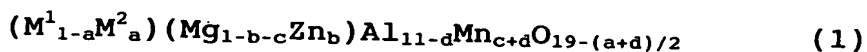


ABSTRACT

A phosphor having small reduction in brightness when exposed to the plasma, a phosphor paste comprising the phosphor
 5 are provided. The phosphor comprises the following fluorescent substances I and II, wherein the fluorescent substance I contains silicate and Mn as an activator and the fluorescent substance II contains a compound represented by the formula (1) or a compound represented by the formula (2) and Tb as the
 10 activator.



[In the formula (1), M^1 is at least one selected from the group consisting of La, Y and Gd, M^2 is at least one selected from the group consisting of Ca, Sr and Ba, a is not less than 0 and
 15 not more than 0.6, b is not less than 0 and not more than 1, c is not less than 0 and not more than 0.5, d is not less than 0 and not more than 0.5, b+c is not more than 1, and c+d is more than 0 and not more than 0.5.]



20 [In the formula (2), M^3 is at least one selected from the group consisting of La, Y and Gd, m is not less than 2.5 and not more than 4.5 and n is not less than 3.5 and not more than 5.5.]